<i>ب</i> نہ			OIPE		MODIFIED PTO/SB/08 A & B (06-0)	
Substitute for Form 1449 A & B/PTO			MAR 2 5 2004			
			9 . <i>i</i>	Application Number	09/986,332	
INFO	RMATION:	DISCLOS	TERE .	Confirmation Number	5542	
STAT	EMENT BY	APPLIC	ANTRADEMARK	Filing Date	November 8, 2001	
			DADE	First Named Inventor	KIYOKU, HIROYUKI	
(use	e as many sheet.	s as necessa	ry)	Art Unit	1765	
				Examiner Name	Anderson, Matthew A.	
Sheet	1	of	1	Attorney Docket Number	Q66212	

			U.S. P.	ATENT DOCUM	IENTS			
Examiner Cite		Document Nu		Publication Date				
Initials*	No.1	Number	Kind Code ² (if known)	MM-DD-YYYY	Name of Patentee or Applicant of Cited Document			
MA.		US 5,620,557	A	04-15-1997	Katsuhide MANABE	et al.		
		US \	_					
		US						
		US						
		DS /						
		US\	<u> </u>					
		US						
		US 🔪						

L	FOREIGN PATENT DOCUMENTS							
Examiner	Examiner Cite	Foreign Patent Document			Publication Date	Name of Patentee or		
Initials*	No.'	Country Code ³	Number ⁴	Kind Code ³ (if known)	MM-DD-YYYY	Applicant of Cited Document	Translation ⁶	
MA		JР	7-165498		06-27-1995	Toyoda Gosei Co. LTD.	Abstract + JPO Translation	
nnA		JP	7-202265		08-04-1995	Mitsubishi Cable Ind. LTD.	Abstract + JPO Translation + US 5620557	
		_						
\rightarrow								
-								
					<u> </u>			

		NON PATENT LITERA	ATURE DOCUMENTS			
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), tille of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. Translation ⁵				
				$\overline{}$		
	\rightarrow					
	$\overline{}$					

		<u> </u>				
Examiner Signature	Mettle	Anderson	Date Considered	6/7/	04	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{&#}x27;Applicant's unique citation designation number (optional). 'See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. 'Penter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 'Applicant is to indicate here if English language Translation is attached.

	VIO.D.		Atty. Docket No.	Serial N	lo.:			
Form PTO-1449 U.S. Department of Commer (Rev. 2-32) Patent & Trademark Office			Q66212	Confirmation No.: To be Assigned				
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Applicant: Hiroyuki KIYOKU, et al.					
		Filing Date: 11/8/2001	Group:	1765	9,4			
		U.S. PATE	NT DOCUMENTS					
Examiner	Document Number	Date	Name	Class	Sub-	Filing Date		
Initial		<u> </u>			Class	(if appropriate)		
IMA	4,482,422	11/13/1984	McGinn et al.	117	95			
inn	4,578,142	03/25/1986	Corboy et al.	117	89			
m	4,908,074	03/13/1990	Hosoi et al.	148	33.2			
NW A	5,239,188	08/24/1993	Takeuchi et al.	257	76			
nn	5,247,533	09/21/1993	Okazaki et al.	372	45			
iMA	5,290,393	03/01/1994	Nakamura et al.	438	509			
MA	5,364,815	11/15/1994	Osada	438	489			
insta-	5,679,152	10/21/1997	Tischler et al.	117	97			
M	5,709,745	01/20/1998	Larkin et al.	117	96			
WA.	5,727,008	03/10/1998	Koga et al.	372	43			
nMA	5,764,673	06/09/1998	Kawazu et al.	372	45			
MA	5,766,695	06/16/1998	Nguyen et al.	427	553			
MA	5,773,369	06/30/1998	Hu et al.	438	746	' "		
nn	5,789,265	08/04/1998	Nitta et al.	438	22			
MA	5,880,485	03/09/1999	Marx et al.	257	94			
n/A	6,051,849	04/18/2000	Davis et al.	257	103	02/27/1998		
MAA	2001/0007242 A1	07/12/2001	Davis et al.	117	104			
MUA	2001/0009167 A1	07/26/2001	Davis et al.	148	33			
1000		FOREIGN PA	TENT DOCUMENTS					
	Danimant			Class	Sub-	Translation		
	Document	Date	Country	Class	class	Yes/No		
nA	7-273367 A	10/20/1999	JAPAN	H01L	33/00			
ANH	5-343741 A	12/24/1993	JAPAN	H01L	33/00			
KAD	5-55631 A	03/05/1993	JAPAN	H01L	33/00			
innu	8-64791 A	03/08/1996	JAPAN	H01L	27/12			
MA	7-201745 A	08/04/1995	JAPAN	H01L	021/205			
nu-	WO 97/11518	03/27/1997	PCT	HOIS	3/18	Yes-EP 0 852 416 A		
MA	0 852 416 A1	07/08/1998	EP	H01S	3/18			
MA	WO 99/44224	09/02/1999	PCT	HOIL	21/20			
	OTHER DOCUME	NTS (Including	Author, Title, Date, Pert	inent Page	s, Etc.)	· · · · · · · · · · · · · · · · · · ·		
	International Search Rep							
111				mary Jude	ment. North	Carolina State		
[// <i>///</i> //		Defendant Nichia America Corporation's Motion for Partial Summary Judgment, North Carolina State University and Cree, Inc., v. Nichia Corporation and Nichia America Corporation, No: 5:00-CV-703-F(2),						
0000			rict of North Carolina Sou					
MAG	International Search Res	ort, PCT/US99	9/04346, June 9, 1999					
MA	Lester et al, "High Dislo	cation Densitie	s in High Efficiency GaN	-Based Lig	ht-Emitting	Diodes", Appl. Phys.		
0000	Lett., 66, 1995, pp. 1249		ha Plus I assu Diad-: C-	I Daned tie	be Emitter-	and Lasars Barlin		
MA		Nakamura, Shuji and Gerhard Fasol, The Blue Laser Diode: GaN Based Light Emitters and Lasers, Berlin: Springer, 1997, pp. 282-304						
EXAMINER:	MATTER MILL							
	nitial if citation considered, wa	hether or not ci	tation is in conformance v	with MPEP	609; draw l	ine through citation if		

Atty. Docket No. Serial No.: Form PTO-1449 U.S. Department of Commerce Patent & Trademark Office Q66212 Confirmation No.: To be Assigned (Rev. 2-32) Applicant: Hiroyuki KIYOKU, et al. INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Filing Date: 11/8/2001 Group: 1765 U.S. PATENT DOCUMENTS Filing Date Examiner Document Number Date Name Class Sub-Class (if appropriate) Initial MA 117 86 RE 34,861 02/14/1995 Davis et al. 4,946,547 08/07/1990 Palmour et al. 117 97 438 507 4,912,064 03/27/1990 Kong et al. 4,865,685 09/12/1989 Palmour 438 718 MA 148 33.2 4,522,661 06/11/1985 Morrison et al. MA 09/29/1998 Furushima 372 45 5,815,520 MI 257 103 5.786.606 07/28/1998 Nishio et al. MA 06/02/1998 Marx et al. 257 190 5,760,426 aug 5,549,747 08/27/1996 Bozler et al. 117 43 03/14/1995 Bauser et al. 117 56 5,397,736 89 5,389,571 02/14/1995 Takeuchi et al. 117 PINA 06/16/1992 Manabe et al. 257 76 5,122,845 mu. 4,876,210 10/24/1989 Barnett et al. 117 58 438 193 4,651,407 03/24/1987 Bencuya 5,877,070 03/02/1999 Goesele et al. 438 458 438 406 5,710,057 01/20/1998 Kennev 4,127,792 11/28/1978 Nakata 313 500 FOREIGN PATENT DOCUMENTS Document Date Country Class Sub-Translation class Yes/No WH 0 551 721 A2 07/21/1993 EP HOIL 21/20

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
MH	Zheleva et al., Dislocation Density Reduction Via Lateral Epitaxy in Selectively Grown Gan Structures, Appl. Phys, Lett. Vol. 71, No. 17, October 27, 1997, pp. 2472-2474
WH	Doverspike et al., The Effect of GaN and AIN Buffer Layers on GaN Film Properties Grown on Both C-Plane and A-Plane Sapphire, Journal of Electronic Materials, Vol. 24, No. 4, 1995, pp. 269-273
all	Kuznia et al., Influence of Buffer Layers on the Deposition of High Quality Single Crystal GaN Over Sapphire Substrates, J. Appl. Phys., Vol. 73, No. 9, May 1, 1993, pp. 4700-4702
all	Watanabe et al., The Growth of Single Crystalline GaN on a Si Substrate Using AIN As An Intermediate Layer, Journal of Crystal Growth, Vol. 128, 1993, pp. 391-396
att	Chen et al., Silicon-on-Insulator: Why, How, and When, AIP Conference Proceedings, Vol. 167, No. 1, September 15, 1988, pp. 310-319
MA	Amano et al., Metalorganic Vapor Phase Epitaxial Growth of a High Quality GaN Film Using an AIN Buffer Layer, Applied Physics Letters, Vol. 48, No. 5, February 3, 1986, pp. 353-355
ans	Yoshida et al., Improvements on the Electrical and Luminescent Properties of Reactive Molecular Beam Epitaxially Grown GaN Films by Using AIN-Coated Sapphire Substrates, Applied Physics Letters, Vol. 42, No. 5, March 1, 1983, pp. 427-429
MA	Nakamura, GaN Growth Using GaN Buffer Layer, Japanese Journal of Applied Physics, Vol. 30, No. 10A, October 1991, pp. Jp1705-L1707
EXAMINER:	Mouto Cuder DATE CONSIDERED: 6/08/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

Form PTO-1449 (Rev. 2-32) U.S. Department of Commerce Patent & Trademark Office Atty. Docket No. Serial No.:

Applicant: Hiroyuki KIYOKU, et al.

Q66212

Confirmation No.: To be Assigned

INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

Filing Date: 11/8/2001 | Group: 1765

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Examiner Document Initial International Search Report, PCT/US99/12967, October 18, 1999 Kapolnek et al., "Anisotropic Epitaxial Lateral Growth in GaN Selective Area Epitaxy", Appl. Phys. Lett. 71(9), 1 September 1997, pp. 1204-1206 Usui et al., "Thick GaN Epitaxial Growth With Low Dislocation Density by Hydride Vapor Phase Epitaxy", Jpn. J. Appl. Phys., Vol. 36, Part 2, No. 7B, 15 July 1997, pp. 899-902 Nam et al., "Growth of GaN and Ala Gas N on Patterned Substrates Via Organometallic Vapor Phase Epitaxy", Jpn. J. Appl. Phys., Vol. 36, Part 2, No. 5A, 1 May 1997, pp. 532-535 Nam et al., "Selective Growth of GaN and Alo2Gao8N on GaN/AIN/6H-SiC(0001) Multilayer Substrates Via Organometallic Vapor Phase Epitaxy", Proceedings MRS, December 1996, 6 pp. Kapolnek et al., "Selective Area Epitaxy of GaN for Electron Field Emission Devices", Journal of Crystal Growth, 5451, 1996, pp.1-4 Weeks et al, "GaN Thin Films Deposited Via Organometallic Vapor Phase Epitaxy on ci(6H)-SiC(0001) Using High-Temperature Monocrystalline AIN Buffer Layers", Appl. Phys. Lett. 67(3), 17 July 1995, pp. 401-403 Kato et al., "Selective Growth of Wurtzite GaN and Al, Gal, N on GaN/Sapphire Substrates by Metalorganic Vapor Phase Epitaxy", Journal of Crystal Growth, 144, 1994, pp. 133-140 Yamaguchi et al, "Lateral Supply Mechanisms in Selective Metalorganic Chemical Vapor Deposition". Jon. Appl. Phys., Vol. 32 (1993), pp. 1523-1527 Nakamura et al., InGaN/GaN/AlGaN-Based Laser Diodes With Modulation-Doped Strained-Layer Superlattices, Jpn. J. Appl. Phys., vol. 36, Dec. 1, 1997, pp. L1568-L1571 Linthicum et al., Pendeoepitaxy of Gallium Nitride Thin Films, Applied Physics Letters, Vol. 75, No. 2, July 12, 1999, pp. 196-198 Zheleva et al., Pendeo-Epitaxy: A New Approach for Lateral Growth of Gallium Nitride Films, Journal of Electronic Materials, Vol. 28, No. 4, February 1999, pp. L5-L8 Zheleva et al., Pendeo-Epitaxy-A New Approach for Lateral Growth of GaN Structures, MRS Internet Journal of Nitride Semiconductor Research, 1999, Online!, Vol., 4S1, No. G3.38, November 30, 1998-December 4, 1998 Nakamura et al., InGaN/GaN/AlGaN-Based Laser Diodes Grown on GaN Substrates With a Fundamental Transverse Mode, Jpn. J. Appl. Phys., Vol. 37, September 15, 1998, pp. L1020-L1022 Marchand et al., Microstructure of GaN Laterally Overgrown by Metalorganic Chemical Vapor Deposition, Applied Physics Letters, Vol. 73, No. 6, August 10, 1998, pp. 747-749 Sakai et al., Transmission Electron Microscopy of Defects in GaN Films Formed by Epitaxial Lateral Overgrowth, Vol. 73, No. 4, July 27, 1998, pp. 481-483 Nakamura et al., High-Power, Long-Lifetime InGaN/GaN/AlGaN-Based Laser Diodes Grown on Pure GaN Substrates, Jpn. J. Appl. Phys., Vol. 37, March 15, 1998, pp. L309-L312 Nam et al., Lateral Epitaxial Overgrowth of GaN Films on SiO2 Areas Via Metalorganic Vapor Phase Epitaxy, Journal of Electronic Materials, Vol. 27, No. 4, 1998, pp. 233-237 Wu et al., Growth and Characterization of SiC Films on Large-Area Si Wafers by APCVD-Temperature Dependence, Materials Science Forum, Vols. 264-268, 1998, pp. 179-182 Nam et al., Lateral Epitaxy of Low Defect Density GaN Layers Via Organometallic Vapor Phase Epitaxy, Appl. Phys. Lett., Vol. 71, No. 18, November 3, 1997, pp. 2638-2640 **EXAMINER:** DATE CONSIDERED: 11 Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw-fine through citation if EXAMINER:

not in conformance and not considered. Include copy of this form with next communication.